BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE

Name of work: Improvements To Roads At 5th,6th,7th,2nd Main,3rd Main Kalyana Nagara In Ward No 13 Shettyhalli Sub-Division

Est .Cost Rs 45.00 Lakhs

Sl. No		Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		2	295.00	1.20	0.25	177.00		
	3rd Main Road Kalyanagara		2	296.00	1.20	0.25	177.60		
	5th cross 1st Main Road to 2nd Main Road		2	85.00	1.20	0.25	51.00		
	6th cross 3rd Main Road to Pipe Line		2	310.00	1.20	0.25	186.00		
	7th cross 1st Main Road to 2nd Main Road		2	70.00	1.10	0.25	38.50		
		Cum					**630.10**	**137.80**	**86827.78**
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Grand Total	**137.80**							
2	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		2	295.00	1.20		708.00		
	3rd Main Road Kalyanagara		2	296.00	1.20		710.40		
	5th cross 1st Main Road to 2nd Main Road		2	85.00	1.20		204.00		
	6th cross 3rd Main Road to Pipe Line		2	310.00	1.20		744.00		
	7th cross 1st Main Road to 2nd Main Road		2	70.00	1.20		168.00		
		Sqm					**2534.40**	**6.36**	**16118.78**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Grand Total	**6.36**							
3	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 **(Page No-158 Item no - 20.18 of KPWD SR 2018-19).**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		2	295.00	1.20	0.20	141.60		
	3rd Main Road Kalyanagara		2	296.00	1.20	0.25	177.60		
	5th cross 1st Main Road to 2nd Main Road		2	85.00	1.20	0.25	51.00		
	6th cross 3rd Main Road to Pipe Line		2	310.00	1.20	0.20	148.80		
	7th cross 1st Main Road to 2nd Main Road		2	70.00	1.20	0.25	42.00		
		Cum					**561.00**	**2001.28**	**1122718.08**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Grand Total	**2001.28**							
4	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications.MORTH Specification No. 502 **(Page No-161 Item no - 21.6 of KPWD SR 2018-19)**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		2	295.00	1.20		708.00		
	3rd Main Road Kalyanagara		2	296.00	1.20		710.40		
	5th cross 1st Main Road to 2nd Main Road		2	85.00	1.20		204.00		
	6th cross 3rd Main Road to Pipe Line		2	310.00	1.20		744.00		
	7th cross 1st Main Road to 2nd Main Road		2	70.00	1.20		168.00	2.650	
		Sqm					**2534.40**	**28.62**	
	Issue Rate	27.00							
	Area Weightage 6%	1.62							**1571529.44**
	Grand Total	**28.62**							

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5	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen **(Page No-160 Item no - 21.17.6 of KPWD SR 2018-19)**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		2	295.00	1.20	0.05	35.40		
	3rd Main Road Kalyanagara		2	296.00	1.20	0.05	35.52		
	5th cross 1st Main Road to 2nd Main Road		2	85.00	1.20	0.05	10.20		
	6th cross 3rd Main Road to Pipe Line		2	310.00	1.20	0.05	37.20		
	7th cross 1st Main Road to 2nd Main Road		1	70.00	2.60	0.05	9.10		
		Cum					**127.42**	**6597.44**	**840645.80**
	Issue Rate	6224.00							
	Area Weightage 6%	373.44							
	Grand Total	**6597.44**							
6	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **(Page No-161 Item no - 21.2 of KPWD SR 2018-19).**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		1	295.00	5.40		1593.00		
	3rd Main Road Kalyanagara		1	296.00	3.80		1124.80		
	5th cross 1st Main Road to 2nd Main Road		1	85.00	5.30		450.50		
	6th cross 3rd Main Road to Pipe Line		1	310.00	4.80		1488.00		
	7th cross 1st Main Road to 2nd Main Road		1	70.00	5.10		357.00		
		Sqm					**5013.30**	**5.30**	**26570.49**
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	**5.30**							
7	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH **(Page No-161 Item no - 21.7 of KPWD SR 2018-19).**								
	Kalyan Nagara								
	2nd Main Road Kalyanagara		1	295.00	5.40		1593.00		
	3rd Main Road Kalyanagara		1	296.00	3.80		1124.80		
	5th cross 1st Main Road to 2nd Main Road		1	85.00	5.30		450.50		
	6th cross 3rd Main Road to Pipe Line		1	310.00	4.80		1488.00		
	7th cross 1st Main Road to 2nd Main Road		1	70.00	5.10		357.00		
		Sqm					**5013.30**	**12.72**	**63769.18**
	Issue Rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	**12.72**							
8	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. Clause 507 of MORTH V Version as per IRC SP-53-2015,**do-Using 40-60 TPH Capacity HMP With Mechanical Paver Grading II (30-45mm) with 5.4% of Modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (Waste Plastic) (P.No.171 & I.No.21.78.12, PWD 18-19)**								
	2nd Main Road Lakeview Layout		1	230.00	5.20	0.03	35.88		
	3rd Cross BHEL mini colony		1	110.00	4.50	0.03	14.79		
	2nd Main Road Kalyanagara		1	295.00	5.40	0.03	47.79		
	3rd Main Road Kalyanagara		1	296.00	3.90	0.03	34.63		
	5th cross 1st Main Road to 2nd Main Road		1	85.00	5.50	0.03	14.03		
	6th cross 3rd Main Road to Pipe Line		1	310.00	4.80	0.03	46.64		
	7th cross 1st Main Road to 2nd Main Road		1	70.00	5.20	0.03	10.92		
		Cum					**202.68**	**7753.90**	**1571529.44**
	Issue Rate	7315.00							
	Area Weightage 6%	438.90							
	Grand Total	**7753.90**							

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9	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No.136 & I.No.17.1 PWD 18-19)								
	Vide Item No.1						630.10		
		Cum					**630.10**	**57.00**	**35915.70**
	Basic Rate	57.00							
10	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
	Vide Item No.9						630.10		
		t.km					**630.10**	**12.80**	**8065.28**
	Lead for earth 5 km=(5*1.28*2=25.60)	12.80							

Total Constrution cost	**3844695.06**
GST Charges 12%	**461363.41**
Tender Premium 5%	**192234.75**
Sub Total	**4498293.22**
Miscellaneous & Rounding Off	**1706.78**
Grand Total	**4500000.00**

Certificate:-

1) This work comes within BBMP limits.
2) Certified that Personaly Inspected the Work Spot
3) Certified that the estimate is prepared based on CSR of PWD Banglore Circle 2018-19
4) Estimate is prepared Making Use of essential item of work as per site Conditions in safest way of Execution in most
5) This work is not included in any other program of work

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shetyhalli Sub - Division

Executive Engineer
Dasarahalli Zone

ADMINISTRATIVELY SANCTIONED FOR Rs. 45.00
(Rupees Forty ... Four ... lacs ... only .....
Under the Head of Account P-3726 .....
Registered as no EE(D.D.)/AS.16/20-21 Subject
conditions contained in Enclosed Memo
EE/DD/AS../16/2020-21 Dt: 22/04/2020

Exe. Eng
E/AE. (DASARAHALLI) BBMP

Technically Sanctioned For Rs: 45,00,000/-
Rs. In Words.....forty five lacks only.....
Under.....P 3726.....
Job Code No.....013-20-000132.....
Registered as SE No.....34...../20-21..subject
to conditions contained in Enclosed Memo
No..SE/D.Z/TS../34/20-21 Dt.06/05/20

AE/JE TA SE(D)

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